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1 Row-wise parallel predicate evaluation

Ryan Johnson, Vijayshankar Raman, Richard Sidle, Garret Swart

 August 2008 **Proceedings of the VLDB Endowment** , Volume 1 Issue 1

Publisher: VLDB Endowment

 Full text available: ☒ Pdf (882.02 KB) [Additional Information: full citation, abstract, references, index terms](#)
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Table scans have become more interesting recently due to greater use of ad-hoc queries and greater availability of multi-core, vector-enabled hardware. Table scan performance is limited by value representation, table layout, and processing techniques. ...

2 Verification of arithmetic datapaths using polynomial function models and congruence solving

Neal Tew, Priyank Kalla, Namrata Shekhar, Sivaram Gopalakrishnan

 November 2008 **ICCAD '08: Proceedings of the 2008 IEEE/ACM International Conference on Computer-Aided Design**
Publisher: IEEE Press

 Full text available: ☒ Pdf (198.84 KB) [Additional Information: full citation, abstract, references](#)
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This paper addresses the problem of solving finite word-length (bit-vector) arithmetic with applications to equivalence verification of arithmetic datapaths. Arithmetic datapath designs perform a sequence of Add, Mult, Shift, Compare, Concatenate, Extract, ...

3 Distributed hash sketches: Scalable, efficient, and accurate cardinality estimation and distributed multisets

N. Ntamos, P. Triantafillou, G. Weikum

 February 2009 **Transactions on Computer Systems (TOCS)** , Volume 27 Issue 1

Publisher: ACM

 Full text available: ☒ Pdf (2.90 MB) [Additional Information: full citation, abstract, references, index terms](#)
Bibliometrics: Downloads (6 Weeks): 62, Downloads (12 Months): 62, Citation Count: 0

Counting items in a distributed system, and estimating the cardinality of multisets in particular, is important for a large variety of applications and a fundamental building block for emerging Internet-scale information systems. Examples of such applications

Keywords: Distributed estimation, distributed cardinality estimation, distributed data summary structures, distributed information systems, hash sketches, peer-to-peer networks and systems

4 Multi-resolution bitmap indexes for scientific data

Rishi Rakesh Sinha, Marianne Winslett

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